

ABSTRACT OF THE DISCLOSURE

5 The distance measuring device comprises
light emitting means, light receiving means,
clamping means that outputs long-range side
10 signal or clamp signal; calculation means that
calculates the ratio between the short-range side
signal and the signal output from the clamping
means to output ratio signal, measuring means of
the luminance of outside light, threshold setting
15 means that sets up an infinity determination
threshold value such that the lower luminance of
the outside light corresponds to the longer range
side as a threshold value; conversion means that,
when the output ratio signal is the signal
20 corresponding to the short range side shorter
than the infinity determination threshold value,
converts the output ratio signal into a distance
signal, and if not short range side, converts the
same into a predetermined distance signal having
a fixed value.